

## **INTEGRATED HEAT SPREADER WITH MECHANICAL INTERLOCK DESIGNS**

### **ABSTRACT**

An integrated heat spreader is presented. The heat spreader is constructed and arranged to be adhesively affixed, with a sealant, to at least a portion of a component, such as a substrate. The heat spreader includes a body portion, a lip portion substantially vertically oriented and integrally formed with the body portion, and a step portion integrally formed with the lip portion. As such, adhesion of the heat spreader to the sealant is increased, and failure due to shear stresses at the heat spreader bonding surface is prevented.